1 **MISCELLANEOUS**
2 **LIGHTNING PROTECTION**
3 .Rods
4 R **AIR TERMINALS**
4 C .Coated and radioactive
5 R **ELECTRIC SHOCK HAZARD PROTECTIVE DEVICES**
5 SB .Shock protection, body insulation
5 SG .Shock protection, grounding devices
6 **EARTH GROUNDS**
7 .Driving type
8 **WITH FLUIDS OR VACUUM**
9 R .Current conductive fluid and/or vacuum
9 F ..Conductive fluid
10 .With cable or conduit preinstallation devices
11 R .With fluid-condition responsive and/or indicating means
11 BH ..Bushings
12 R .With expansion and contraction means
13 ..Built into conduit or cable
12 BH ..Expansion bushings
14 R .With fluid maintenance or conditioning means
14 BH ..Bushings
15.1 .With cooling or fluid feeding, circulating or distributing
15.2 ..By heat pipe
15.3 ..For bushing or pothead
15.4 ..Superconductive type
15.5 ...For cable, conductor or joint
15.6 ..For cable, conductor or joint
15.7 ..For welding or furnace cable
16.1 ..By ventilation or gas circulation
16.2 ...Of bus bars or bus ducts
16.3 ...With heat sink
17 R .Boxes and housings
17.05 ..Hermetic sealed envelope type (e.g., with exhaust stem)
17.06 ...Liquid seal
17.07 ...Combined lead-in and exhaust tube
17.08 ...With electric connector
18 ..With bushing, terminal or lead-in
17 LF ..Liquid filled
17 GF ..Gas filled
17 SF ..Solid filled
17 VA ..Venting, absorption, expansion
17 CT ..Closures, terminals, gaskets
19 .Conduit or cable end structure
20 ..With fluid stops
21 R .Conduit or cable joints
22 R ..With fluid stops
22 C ...Concentric
21 JS ..Joints: separable
21 JR ..Joints: rotatable
21 JC ..Joints: rotatable, coaxial
21 C ..Joints: coaxial
21 CA ..Joints: coaxial angle expansion
23 R .With fluid stops
23 C ..Compositions
24 .Conduits, cables and conductors
25 R ..Impregnated insulation type
26 R ...Multiple conductor
26 G ....Gas filled
25 C ...Impregnating compositions
25 G ...Gas filled
25 P ...Processes
27 ..Parallel or twisted conductors
28 ..Coaxial or concentric type
29 ...With spiral spacer
30 .Insulators
31 R ..Axial passage and/or through wall or plate
31.5 ...Liquid sealed joint
31 S ...Spark plugs
32 **ANTI-INDUCTIVE STRUCTURES**
33 .Conductor transposition
34 ..Conduit or cable structure
35 R .Shielded or screened
36 ..Conductor only
35 C ..Connectors and joints
35 SM ..Spark plugs, manifolds
35 GC ..Gaskets, covers
35 CE ..Coils, anti-eddy-current
35 MS ..Materials, stock and screen rooms
35 TS ..Radio tube shields
37 **UNDERGROUND**
38 .Distributing and/or combined with overhead
39 .Street, sidewalk, gutter or curb structure
40 R **OVERHEAD**
41 .With messenger cable
42 .With conductor vibration damping means
43 .Distributing and/or plural point support

44 .With connector or wire fanning arrangements
45 R .Towers, poles or posts
45 TD ..Tension devices
40 CC .Ground clamps and cable clips
40 TD .Tension devices
46 **HANDLES**
47 **COMBINED FLUID CONDUIT AND ELECTRICAL CONDUCTOR**
48 **WALL MOUNTED CONDUITS AND/OR HOUSINGS**
49 .Plural outlet and/or conduit
50 **BOXES AND HOUSINGS**
50.5 .Hermetic sealed envelope type
50.51 ..With covering or casing for envelope
50.52 ..With electrical connector
50.53 ...Envelope portion forms connector
50.54 ..With mounting means for a device within envelope
50.55 ..Hollow lead surrounding another lead (e.g., concentric type)
50.56 ..Lead-in insulated from metal wall
50.57 ..Stem or sealing disk attached to envelope neck
50.58 ...By fused-type seal
50.59 ..With shield for lead-in seal or between the lead-in conductors
50.6 ..Plural lead-in
50.61 ..With bonded seal for conductive member (e.g., glass to metal)
50.62 ...With cement or plastic
50.63 ...Metal disk or ring-type seal
50.64 ...Foil or flat lead-in
51 .With grounding means
52.1 .With electric device or mounting means therefor
52.2 ..Potted or encapsulated
52.3 ..Sealed
52.4 ...Flat housing for electronic device (e.g., flat pack, dual-in-line package)
52.5 ...Header, mounting stud, or can-type housing for semiconductor or crystal
52.6 ...Pellet type housing
53 ..Plug receptacle or wall switch type
54 ...With fixture coupling or mounting means
55 ...Unitary with face plate
56 ....External
57 ...Adjustable
58 ...With box or housing mounting means
59 ..With connectors
60 ...Cable or conduit terminal casings
61 ..Fixtures coupling or mounting means
62 ...Stud or nipple
63 ....With box supporting means
64 ....With conduit or cable coupling means
65 R .With conduit or cable opening, coupling means or hole closures
65 SS ..Sealed stuffing-gland type
65 G ..Grommet type
66 **COVERS OR FACE PLATES**
67 .With closure for face plate opening
68.1 **CONDUITS, CABLES OR CONDUCTORS**
68.2 .Bus bars or bus ducts (Residual)
68.3 .Single duct conduits
250 .Preformed panel circuit arrangement (e.g., printed circuit)
251 ..With encapsulated wire
252 ..With cooling means
253 ..Micropanel
254 ..Convertible shape (e.g., flexible) or circuit (e.g., breadboard)
255 ..With particular substrate or support structure
256 ..With particular material
257 ...Conducting (e.g., ink)
258 ...Insulating
259 ...Adhesive/bonding
260 ..With electrical device
261 ..With particular conductive connection (e.g., crossover)
262 ...Feedthrough
263 ....With solder
264 ....Voidless (e.g., solid)
265 .....Preform in hole
266 ....Hollow (e.g., plated cylindrical hole)
267 ...Termination post
268 ..With single conductive plane (e.g., tape, cable)
69 .Extensible
70 R .Combined

71 R ..Branched
72 R ...Multi-duct conduit and/or plural branch
72 A ....Wire harness
72 B ....Bus bars
72 C ....Casing, moldings
72 TR ....Ribbon type
71 B ...Bus bars
71 C ...Coaxial
73.1 ..With joint or end structure conductive stress distributing means
74 R ..With end structure
75 R ...With joint
75 B ....Bootleg
75 D ....With detachable joint (e.g., potheads)
75 F ....Flexible spring type
75 C ....Coaxial
76 ...Plastic filled
77 R ...Sealing
77 S ....Spark plugs
78 ...With grounding means
79 ...With supporting means
80 ...With insulator skirts
81 ...Elbow or hood outlet type
82 ...End cap outlet type
83 ...Lining thimble
74 A ...Insulating cap or sleeve
84 R ..With joints
85 ...Axially insulated joint sleeve sections
86 ...Angularly movable or adjustable
87 ...Angular
88 R ...Plural conductor and/or duct
88 B ....Bus bars
88 C ....Coaxial
88 S ....Separable
89 ...Radially spread or flanged sheath or conduit
90 ...Stranded conductor
91 ...Divided joint sleeves
92 ....Longitudinally
93 ...Sleeve and end cap-type casing
94 R ...Bare-conductor
94 S ....Separable
84 C ...Crimped
84 S ...Separable
70 S ..Submarine repeater housings
70 B ..Bus bars
70 C ..Conduits or strips
70 A ..Aerial cable
95 .Plural duct
96 ..Embedded conduit-ducts or conductors
97 ..Grooves or channels
98 .With embedded conduit-duct or conductor
99 R .With interior conductor or cable supports
100 ..Vertical conductor or cable
99 B ..Bus bars
99 E ..Expansion
101 .Removable wall
101.5 .Buoyant
102 R .Conductive armor or sheath
103 ..Plural individually sheathed or armored conductors
104 ...Embedded in shield
105 R ..Plural, insulated
105 SC ...Semiconducting
105 B ...Segmental
106 R ..Plural, conductively contacting or composite
106 SC ...Semiconducting
106 D ...Corrugated
107 ..Protected by nonconductive layer
108 ..Spirally applied
109 ...Overlapping or interlocking
102 A ..Alloys
102 SC ..Semiconducting
102 C ..Sheath coated
102 SP ..Strip, type, perforated, slotted
102 P ..Powdered insulation
102 D ..Corrugated
102 E ..Rope
110 R .Insulated
111 ..With beads or disc
112 ..With identifying means
113 R ..Multiple conductor
114 R ...Split conductor
114 S ....Segmental reentrant
115 ...Dissimilar or auxiliary conducting elements
116 ...With filler insulation
117 R ...Assemblies of noncircular section
117 F ....Flat or ribbon type
117 FF ....Conductor itself is flat
117 M ....Mesh
117 AS ....Air-spaced
117 A ....Adhesive
113 A ...Radially compressed
113 AS ...Air-spaced
113 C ...Insulating core

118 ..With powdered or granular material
119 R ..Composite or noncircular strand section
119 C ...Coated, compositions
120 R ..Plural or impregnated layers
121 R ...Fibrous or fabric with plastic or coating materials
121 A ....Flame, weather or mold proof
121 B ....Cellulose
121 AR ....Rubber
121 SR ....Synthetic resin
122 R ...Fibrous or fabric
122 G ....Glass
122 C ....Coated
120 C ...Coated or impregnated
120 FP ...Fluid-type cable paper
120 SC ...Semiconducting
120 AR ...Rubber
120 SR ...Synthetic resin
124 R ..Fibrous or fabric
124 G ...Mineral-glass
124 GC ...Mineral-glass, coated
110 A ..Oxide
110 P ..Cellulose
110 AR ..Rubber
110 SR ..Synthetic resin
110 SY ..Styrene
110 B ..Isobutylent
110 N ..Polyamide (Nylon)
110 PM ..Polyethylene (including "Mylar")
110 D ..Dacron
110 V ..Vinyl
110 FC ..Fluorocarbons (teflon, Kel-f, FEP-Teflon)
110 S ..Silicones
110 F ..Foam
110 E ..Epoxy
125.1 .Superconductors
126.1 .Conductor structure (nonsuperconductive)
126.2 ..Composite
126.3 ..Corrugated or slotted
126.4 ..Metal coated on insulation
127 ..Corona prevention
128.1 ..Plural strand
128.2 ...Bundle conductors
129 R ...Assemblies of noncircular section
129 B ....Bus bars
129 S ....Segmental, reentrant
130 ...Annular
131 R ....With wall support
131 A .....Insulating core
131 B .....Synthetic, coated
133 R ..Noncircular strand section
133 B ...Bus bars
135 .Accessories
136 ..Anti-abrasion devices
137 R **INSULATORS**
138 R .Special application
138 A ..Antennas
138 C ..Compositions
138 S ..Spark plugs
138 B ..Pull chains
138 D ..Studs, rods, and joints
138 E ..Slot liners and spacers
138 F ..Terminal covers
138 G ..Component mounting pads, spacers and holders
138 H ..Neon tube type
138 J ..Resistor or heater type
139 .Combined
140 R ..With conductive arcing or stress distributing means
141 R ...Strings or stacks
141 C ....Coated
142 ...Bushing type
143 ....Condenser type
144 ...Arcing or grading devices
140 C ...Coated
140 H ...Hood type
140 S ...Strain type
140 CR ...Corona ring
145 ..With connector
146 .Mid-line spacers
147 ..Cross-over
148 .Multiple insulator assemblies
149 R ..Multiple conductor
149 B ...Bus bars
150 ..Strings and stacks
151 .Through wall or plate
152 R ..Bushing type
153 R ...Opposed wall engaging means
153 A ....Antennas
153 G ....Grommets
152 A ...Antennas
152 E ...Electric space discharge device
152 S ...Spark plugs
152 G ...Grommets or tubes
152 GM ...Glass-to-metal seal
154 .Insulator and conductor embracing holder
155 ..Divided insulator
156 .Divided insulator
157 ..Aligned through aperture

158 R .With insulator-supporting or attaching means
159 ..Insulated nail or staple type
160 ..Strand engaging suspension means
161 R ..Adjustably or movably mounted
161 F ...Fence post insulators
162 ..Double arm
163 R ..Support and/or insulator embracing or clamping
163 F ...Fence post insulators
164 ..Support penetrating
165 ...Penetrating element socketed in insulator
166 R ...Through aperture, penetrating element clamped
166 S ....Stand-off insulators
158 F ..Fence post insulators
167 .With conductor receiving aperture or bushing type
168 .With conductor holding means
169 ..Fitting or terminal type
170 ...Hooks
171 ...Special conductor form
172 ..Insulator embracing
173 ...Tie wires
174 ..Insulator structure
175 ...Self-retaining
176 .With terminal elements
177 ..Plural
178 ...Multi-part, sectional or composite insulator
179 ....Protected rod type
180 ....Pin and opposed overlapping terminal
181 ...With insulated reinforcing or interlocking element
182 ...Cap and pin
183 ...Overlapping
184 ....Interlinking
185 ....Pin and opposed terminal
186 ...Caps
187 ..Ventilating
188 ..Cap type
189 ...Plastic material adhered
190 ...Divided cap
191 ...Clamps or clasps
192 ...Rings or wedges
193 ...Screw or bayonet
194 ..Pin type
195 ...Multi-part insulators
196 ...Plastic material adhered
197 ...Clamps or clasps
198 ...Rings or wedges
199 ...Expanded
200 ...With thimble in socket
201 ...Through pin
202 ...Screw or bayonet type
203 ....Strand thread
204 ....Sheet material thread
205 ....Soft yielding material pin
206 ....Sockets
207 ..Link or clevis
208 .Link type
209 .Sectional, multi-part, composite, or coated
210 ..Pin socket type
211 .With moisture or dirt removing or shedding
212 .Surface configuration
137 A .Coated
137 B .Compositions

FOREIGN ART COLLECTIONS

FOR **CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

DIG 1 **ANTI-TRACKING**
DIG 2 **BALLASTS**
DIG 7 **SODIUM CONDUCTORS, CONNECTORS, ETC.**
DIG 8 **SHRINKABLE TUBES, ETC.**
DIG 9 **PULL-OUT CABINET OR DRAWER WITH RETRACTABLE CABLE**
DIG 10 **BUSHING WITH CURRENT TRANSFORMERS**
DIG 11 **ZIPPER TUBES**
DIG 12 **HELICAL PREFORMS**
DIG 13 **HIGH VOLTAGE CABLE (E.G., ABOVE 10KV, CORONA PREVENTION, ETC.)**
DIG 14 .Having a particular cable application (e.g., winding, etc.)
DIG 15 ..In a power generation system (e.g., prime-mover dynamo, generator system, etc.)
DIG 16 ..In a motive power system (e.g., electric motor control system, etc.)
DIG 17 ..In an electric power conversion, regulation, or protection system
DIG 18 ..In a power distribution network

DIG 19 ..In a dynamo-electric machine
DIG 20 ...Stator
DIG 21 ...Rotor
DIG 22 ...Winding, per se
DIG 23 ..In a circuit breaker, relay, or switch
DIG 24 ..In an inductive device (e.g., reactor, electromagnet, etc.)
DIG 25 ...Transformer
DIG 26 .Having a plural-layer insulation system
DIG 27 ..Including a semiconductive layer
DIG 28 ...Plural semiconductive layers
DIG 29 .Having a semiconductive layer
DIG 30 .Having insulation with a particular dimension or geometry
DIG 31 .Having a shield or metallic layer
DIG 32 .Having means for cooling
DIG 33 .Method of cable manufacture, assembly, repair, or splicing